

# PROGRAM REVIEW SPRING 2026

May 12-13, 2026, Oak Ridge, Tennessee

Please Note: All meeting times are local time

## Tour of Oak Ridge National Laboratory

1 Bethel Valley Rd #5200, Oak Ridge, TN 37830

Monday, May 11, 2026 (12:30 pm - 6:00 pm)

Check in at Visitors Center at 12:30pm for 1pm tour, late arrivals can join second leg of tour at 3:30pm (tentative)

## CITeR Welcome - Admiral Pub

143 Brooklawn St., Farragut, TN 37934

Monday, May 11, 2026 (5:30 pm - 7:30 pm)

## CITeR Program Review

Tuesday, May 12, 2026

ORNL, 1 Bethel Valley Rd #5200, Oak Ridge, TN 37830

Building 5200, Tennessee Rooms 202A, B & C (2<sup>nd</sup> floor)

Parking available in Conference Center Parking Lot.

09:00 - 09:20 WELCOME & STATE OF CITeR - DR. STEPHANIE SCHUCKERS  
Report from Deliverables Team

09:20 - 10:00 KEYNOTE

**David S. Bolme, PhD, Oak Ridge National Laboratory**

Senior R&D Staff

Human Analysis and Biometrics Group

Cyber Resilience and Intelligence Division

10:00 - 10:30 Break

10:30 - 11:30 NEW PROPOSAL PRESENTATIONS & DISCUSSION

11:30 - 13:30 LUNCH & PROGRESS REPORT POSTER SESSION

13:30 - 14:00 MEMBER SPOTLIGHT (15 MIN EACH)

**Michelle Davis, Defense Forensics and Biometrics Agency**

Biometrics and Forensics Science and Technology Analyst

Booz Allen Hamilton

**Jens Peter Hube, Aware, Inc.**

Chief Research Scientist

14:00 - 15:00 NEW PROPOSAL PRESENTATIONS & DISCUSSION

15:00 - 15:30 Break

15:30 - 16:00 NEW PROPOSAL PRESENTATIONS & DISCUSSION

16:00 - 16:15 NSF Surveys

16:15 - 17:00 STRATEGIC PLANNING DISCUSSION

17:00 - 17:15 FEEDBACK

18:00 - 20:00 Evening Networking Session - Water into Wine

607 N Campbell Station Rd, Knoxville, TN 37934

Wednesday, May 13, 2026

08:00 - 10:20 FINAL REPORT PRESENTATIONS

10:20 - 10:50 Break

10:50 - 11:50 FINAL REPORT PRESENTATIONS (CONTINUED)

12:10 - 13:30 NSF SURVEYS, LUNCH

13:30 - 15:30 Industry Advisory Board (IAB) Meeting

10:30

fingerprint

**NEW PROJECT PROPOSAL PRESENTATIONS - 10 MIN (7 MIN ORAL; 3 MIN Q&A)**

Extra time is allotted at the end of each block to allow for technology transition discussion.

**A Comprehensive Evaluation of End-to-End Conditional Synthetic Fingerprint Generation**

26S-04NC-SP, Weston Bondurant (CLT), Conor Miller-Lynch (CLT), Srijan Das (CLT), Stephanie Schuckers (CLT), Faraz Hussain (CU), Syed Konain Abbas (CU)

**Robustness Evaluation of Light Emitting Sensor (LES) Fingerprint Technology**

26S-04W-SP, Jeremy Dawson (WVU)

**TBD**

TBD

voice/speaker

**Robust Detection of AI-Generated Audio in Noisy Environments**

26S-03W, Prashna Gyawali (WVU), Jeremy Dawson (WVU)

**Audio-Visual Multi-Speaker Speech Recognition and Transcription in Noisy Environments**

26S-03M, Arun Ross (MSU)

**Evaluating Speaker Recognition in Adverse Conditions**

26S-01W, Jeremy Dawson (WVU)

11:30

**PROGRESS REPORTS - LUNCH & POSTER SESSION** (project listing on next page)

13:30

**MEMBER SPOTLIGHT**

**Michelle Davis, Defense Forensics and Biometrics Agency**

Biometrics and Forensics Science and Technology Analyst  
Booz Allen Hamilton

**Jens Peter Hube, Aware, Inc.**

Chief Research Scientist

14:00

video manipulation and injection attacks

**NEW PROJECT PROPOSAL PRESENTATIONS - CONTINUED**

**Hardening Biometrics Systems against Injection Attacks: Building the Foundation for Threat Monitoring & Assessment**

26S-01NC, Jinpeng Wei (CLT), Stephanie Schuckers (CLT)

**Multi-modal deepfake detection using diffusion and MLLMs**

26S-04B, Nalini Ratha (UB), Varun Chandola (UB)

**Multi-Resolution Deepfake Face Swapping Dataset for Biometric and Forensic Evaluation**

26S-03NC, Srijan Das (CLT), Stephanie Schuckers (CLT)

**Continual Few-shot Learning for Robust Detection of AI-Generated Multimedia Content**

26S-02M, Karthik Nandakumar (MSU), Arun Ross (MSU)

**Hardening Real-world AI media detection**

26S-06B-SP, Siwei Lyu (SUNY), Srirangaraj Setlur (SUNY), Chengzhe Sun (SUNY), Zhaofeng Is (SUNY), Soumyya Datta (SUNY), Jialing Chi (SUNY)

15:00

**Break, resume at 15:30**

**Assessment and Enhancement of AI-Based Biometric Comparison Tools**

26S-05B, Venugopal Shah (UB), Srirangaraj Setlur (UB), Venu Govindaraju (UB)

**Continuous Identity and Trust Management for Autonomous AI Agents**

26S-02NC, Sandip Purnapatra (CLT), Keith Burghardt (CLT), Depeng Xu (CLT), Jinpeng Wei (CLT)

16:00

**NSF Surveys**

16:15

**Strategic Planning Discussion**

17:00

**Feedback**

18:00

**Evening Networking Session - Water into Wine**

AI - biometrics, detection and identity

## PROGRESS REPORT POSTER SESSION

*Posters will be placed in the main & adjacent rooms for viewing  
11:30 - 13:30 during the lunch*

**Remember to pickup your POSTER VOTING CARD!**

### **Unified Framework for Generation, Detection & Separation of Overlapped Friction Ridge Patterns**

25F-01M- SP, Karthik Nandakumar (MSU), Arun Ross (MSU), Anil K. Jain (MSU), Noor Hussein (MSU)

### **Towards 3D Contactless Fingerprint and Face Matching**

25F-02UNCC, Conor Miller-Lynch (CLT), Sandip Purnapatra (CLT), Afzal Hossain (CU), Stephanie Schuckers (CU/CLT)

### **A Comprehensive Dataset for Evaluating AI-generated Image Detection**

25F-01B, Siwei Lyu (UB), Srirangaraj Setlur (UB), Zhaofeng Si (UB), Yu Cai (UB)

### **Curating and Evaluating AI-Generated Video Content**

25F-01W, Prashna Gyawali (WVU), Jeremy Dawson (WVU)

### **From Textual Explanation to Scores: Likelihood Ratio using LLMs for Face Recognition**

25F-05M, Arun Ross (MSU), Anil Jain (MSU), Redwan Sony (MSU)

### **Foundation Models for Face Recognition (FMFace)**

25F-01i, Sebastien Marcel (Idiap), Hatef Otroshi (Idiap)

### **Enhancing Accuracy and Robustness of OCR in Real-World Conditions through Domain Awareness**

25F-02B, Venugopal Shah (UB), Srirangaraj Setlur (UB), Venu Govindaraju (UB)

### **A Taxonomy and Benchmark for Selfie Liveness Fraud**

25F-04B-G, Siwei Lyu (UB), Zhaofeng Si (UB)

### **Biometric Aging in Children: Phase V, 24S-03C (2yr project)**

Rumana Sumi (CU), Stephanie Schuckers (CU), Masudul Imtiaz (CU), Laura Holsopple (CU)

### **Remote Collection of Multimodal Twins Biometric Data, 25S-05W**

Jeremy Dawson (WVU), Stephanie Schuckers (CLT)

### **Open-Source Facial Image Quality Toolbox Based on ISO/IEC 29794-5, 25F-04W**

Prashna Gyawali (WVU), Masudul Imtiaz (CU)

08:00

**FINAL REPORTS - 15 MINUTE PRESENTATIONS, 5 MINUTES Q&A**  
Additional time built in to facilitate Technology Transition discussion

**Study on the Potential for Fingerprint Modality Using Wide-Area Sensors for Next-Gen Digital Identity Management on Consumer Devices, 25S-07B**

Sergey Tulyakov (UB), Srirangaraj Setlur (UB), Stephanie Schuckers (CLT)

**Longitudinal Progression of Biometric Recognition in Fingerprint, Face, Iris, & Voice, 25S-04C**

Stephanie Schuckers (CU), Masudul Imtiaz (CU), Mst Rumana Sumi (CU)

**LLM-Based Zero-Shot Explainable FR, through Synthetic Attribute Manipulations, 25S-05B**

Venugopal Shah (UB), Srirangaraj Setlur (UB), Venu Govindaraju (UB)

**Feasibility Analysis on Iris-Biometrics Authentication from Selfie Camera, 25S-05C-G**

Naveen Venkataswamy (CU), Masudul Imtiaz (CU), Stephanie Schuckers (CLT)

**Multi-Layered Framework; Robust Deepfake Audio Detection & Tamper Analysis, 25S-01CW- J**

Masudul Imtiaz (CU), Ajan Ahmed (CU), Nima Karimian (WVU), Sara Tehranipoor (WVU)

**FakePincer: A Multi-pronged Defense against Real-Time Deepfakes in Video Conf., 25S-01M**

Karthik Nandakumar (MSU), Arun Ross (MSU)

**Latent Fingerprint Database w/ Multiple Substrates & Development Techniques, 25S-02W**

Baillie Poulton (WVU), Jeremy Dawson (WVU), Casper Venter (WVU), Keith Morris (WVU)

10:20

Break

10:50

**FINAL REPORTS - CONTINUED**

**AI Synthetic Video Detection Using Multi-Model Manipulation, 24F-02B**

Siwei Lyu (UB), Shan Jia (UB), Srirangaraj Seltur(UB)

**Surveying the Landscape of Generative AI and Detection of Deepfakes, 24F-06B-SP**

Siwei Lyu (UB), Srirangaraj Setlur (UB), Chengzhe Sun (UB), Defang Chen (UB)

**Mitigating the Impact of Dilation on Iris Recognition, 24F-04W**

Hannah Anderson (WVU), Jeremy Dawson (WVU)

12:10

**NSF SURVEYS & LUNCH**

13:30

**Industry Advisory Board (IAB) meeting**